

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A memory device ~~(10, 30, 50)~~ comprising:
 - a) a memory ~~(12, 32, 56)~~ having including a plurality of low-latency, rewritable, non-volatile memory cells; ~~forming at least one memory section;~~
 - b) ~~a profile storage unit (20, 36, 60) connected with said memory and comprising~~ including access information; ~~allocated to at least one set of request information elements (hereinafter request profile), such that said access information indicates whether a request for access to said memory (12, 32, 56) (hereinafter access request), said access request having said request profile, is to be allowed or rejected;~~
 - e) ~~an access control unit (22, 36, 60) communicating connected~~ with said profile storage unit and said memory, ~~and adapted to said access control unit configured to ascertain a request profile to an access request using request information of said access request, said access control unit further configured to determine access rights of~~ allow or reject an incoming said access request in dependence on the access information allocated to the request profile of the access request.
2. (currently amended) The memory device of claim 1, wherein said request profile includes at least one set of request information elements, said set of request information elements ~~comprises including~~ at least one request information element indicating at least one of: a type of request, an external memory client from which the request originates, a memory section the request is directed to, an access authorization, a password, a request protocol type, a time of request, an interface receiving the request, the length of the request, time span lapsed since a last request, a security class, or a priority class.
3. (currently amended) The memory device of claim 1, further comprising a plurality of

interfaces ~~(52, 54)~~ for communication with external memory clients and/or for communication according to different memory uses, ~~each~~ said interfaces being connected with said access control unit ~~(22, 36, 60)~~ and each of said interfaces being allocated to a set of request profiles.

4. (currently amended) The[[m]] memory device of claim 3, wherein at least one of said interfaces is implemented in the form of hardware.

5. (previously presented) The memory device of claim 3, wherein at least one of said interfaces is implemented in the form of software.

6. (currently amended) The memory device of claim 4, further comprising an SRAM-type interface ~~(52)~~ adapted to serve separate connections for address data input and user data exchange, respectively, between the memory device and at least one external memory client.

7. (currently amended) The memory device of claim 5, further comprising an I/O-type interface ~~(54)~~ adapted to serve a shared connection for address data input and user data exchange between the memory device ~~(50)~~ and at least one external memory client.

8. (currently amended) The memory device of claim 1, further comprising a supervisor interface adapted to create or change at least one request profile and/or access information allocated thereto, given a predetermined condition.

9. (previously presented) The memory device of claim 8, wherein said supervisor interface is adapted to admit or reject external requests for change of a request profile, depending on access information allocated to at least one predetermined change request profile.

10. (currently amended) The memory device of claim 3, wherein said profile storage unit ~~(20, 36, 60)~~ comprises a set of access flags, each access flag allocated to a respective

request profile, and wherein said access information is given by one of two possible states of an access flag.

11. (currently amended) The memory device of claim 1, wherein said profile storage unit is integrated into said access control unit ~~(36, 60)~~.

12. (currently amended) The memory device of claim 1, wherein said access control unit ~~(22, 36, 60)~~ is adapted to maintain a current copy of said profile storage unit ~~(20, 36, 60)~~ in a predetermined section of said memory.

13. (currently amended) The memory device of claim 1, further comprising a translation unit adapted to translate between one or more different ways of memory addressing.

14. (new) A method comprising:

receiving an access request to a memory, said access request including request information;

determining a request profile using at least some of said request information;

determining access rights of said access request to said memory, said access rights based on access information allocated to said request profile.